

MARINE CORPS INSTALLATIONS EAST



GROUND SAFETY COURSE

EXPLOSIVE SAFETY OFFICE

 Explosives Safety Section Head Mr. Ralph Harris
 Ralph.harris@usmc.mil

451-6280

Explosives Safety Officer
 CWO3 David Hostuttler
 David.hostuttler@usmc.mil

451-6281

Ammo Chief
 MSgt Timothy Freeman
 Timothy.freeman@usmc.mil

451-6279

SAFETY ALERT SAFETY ALERT

IMPROPER AMMUNITION AND EXPLOSIVES STORAGE

<u>IMPROPERLY</u> STORING UNIT AMMUNITION AND EXPLOSIVES (A&E) SUCH AS 40MM, ROCKETS, GRENADES, C-4 AND HIGH EXPLOSIVES RISK ASSETS AND LIVES







A&E MUST BE STORED AT THE ASP/AHA NOT A MILVAN.





USFOR-A EXPLOSIVES SAFETY DSN: 318-449-4828 (Kabul) 318-841-1160/1442 (Kandahar) 318-431-4212 (Bagram)

SAFETY ALERT SAFETY ALERT USFOR-A 11-004







- >MCO 8020.10_
 - ➤ Governs policy for Marine Corps ammunition management and explosives safety



CHINGGOUN

0UZU 14F

r nzo ro i Siliore Station Explosives Salety Compilance (ES) Frogram

- ►(4) Pillars
- Failure of (1) results in a failure

Program 01 - Command Administration and Management (Rev. Feb 2010)

Program 02 - Qualification & Certification (Rev. Apr 2010)

Program 03 - Standard Operating Procedures (SOPs) (Rev. Feb. 2010)

Program 04 - Ammunition Storage/Magazines (Rev. Feb 2010)

Program 05 - Operating Buildings and Production Lines (Rev. Feb 2010)

Program 06 - Lightning Protection/Grounding (Rev. Feb 2010)

Program 07 - Environmental Compliance (Rev. Apr 2010)

Program 08 - AA&E Physical Security (Rev. Feb 2010)

Program 09 - Ranges/EOD (Rev. Feb 2011)

Program 10 - Motor Vehicle Transportation (Rev. Feb 2010)

Program 11 - Railroad Transportation (Rev. Feb 2010)

Program 12 - Piers And Wharves/Barges (Rev.Feb 2010)

Program 13 - Airfield Operations (Rev. Feb 2010)

Program 14 - Ammunition/Explosives Associated Equipment (Rev. Feb 2010)





- ➤ State the Directing policies for Marine Corps Ammunition Management and Safety.
- ➤ Identify the minimum requirements for the storing of ammunition and explosives.
- ➤ Indentify those persons required to be Qualified and Certified to handle ammunition and explosives.
- > Identify Temporary Field Storage Requirements.
- ➤ Identify the minimum requirements for transporting ammunition and explosives within a motor vehicle.
- > State the purpose and application of a command Amnesty Program.

WUAL TRAINING



- In accordance with MCO P8020.10 all Commanders, Officers, and Officers in Charge will ensure Annual AA&E Awareness Training is conducted and incorporated into the annual training schedule and professional military education.
- The ESO conducts (4) classes per calendar year
- http://www.marines.mil/unit/mcbleieune/e



AA&E Umbrella



- 1. A&E Audit and Verification Officer/SNCO
- 2. AA&E Officer/SNCO
- 3. Ordnance Officer
- 4. Area Security Officer
- 5. Range Safety Officer
- 6. Armorer/Custodian
- 7. Ammo Tech (ESR)
- 8. Ammo Handler/Driver

A&E Audit & Verification Officer

- "The A&E Audit and Verification Officer must be a disinterested Marine who has no responsibilities concerning ammunition security or accountability."
- Certify Expenditure Reports
- Audit the A&E Accountability Procedures
 Quarterly
- Validate A&E Procedures Quarterly
- Audit the AA&E Chain of Custody, i.e.,
- completed transaction file monthly
- Validate NAVMC 10774 Cards
- Maintain letters for current FY plus previous



A&E Officer



- The AA&E Officer shall be that Officer/SNCO which has direct control/responsibility of the armory (e.g., Armory Officer, Ordnance Officer, S-4 Officer)."
- Shall conduct a complete review of the account within 30 days
- Shall complete a wall-to-wall inventory within 30 days
- > Shall report any discrepancies to Commanding Officer
- Maintain close liaison w/Area Security Officer
- ➤ Assist in investigating AA&E losses
- Report status of command compliance quarterly (copies kept for two years)
- Monitor performance and reporting of all AA&E inventories, as well as related MLSR reports.
- Ensure ROIC's/RSO's comply with their duties...



Range OIC



- Conduct joint inventory/receipt of A&E when delivered (prior to firing).
- Ensure DD Form 1348-1(Issue Doc) and first portion of Expenditure Report are completed (prior to firing).
- Account for and supervise the distribution of A&E.
- ➤ Prior to issue, blank ammo will be inspected for the presence of live ammo.
- Ensure all applicable Notice of Ammunition Reclassifications (NAR) /Ammo Info Notices







- Conduct joint inventory, complete DD Form 1348-1 (Turn-In Doc) and Expenditure Report for unexpended ammunition (prior to ammunition leaving the range).
- Ensure that all expended A&E material is visually and physically inspected for live A&E prior to delivery to DRMO (AT4, brass, mortar tubes).
- Ensure Expenditure Report, issue, and turn in documents are turned over to the A&E Officer upon completion of the exercise.



DELINKING



- BO 3570.1C (Range Control Order)
- Pg 5-8, (11) During fire conditions 5 and above units are restricted from delinking ammunition until approved by the G-4/S-4 ammunition section. .50 Cal ammunition is not authorized to be delinked. When approval for delinking ammunition has been granted, only *approved* (ie: .50 Cal) tools and methods are authorized.
- 2d Marine Division G-4 Ammo only authorizes the delinking of 5000 rounds or less A064 and A131.

CLASS V(W) EXPENDITURE REPORT

NAVMC 11381 (Rev. 4-02) (EF) (Previous edition will not be used)

SN: 0109-LF-992-9500

_										
Γ		PRINT NAME	RANK	SSN	UNIT/RUC/PHONE NUMBER					
	FROM:									
I	(ROS/EOD)									
L										

Ref: (a) MCO P4400.150

1. Per the reference, the following Class V(W) expenditure report is completed:

Range(s) and date(s)

RECEIPT DOC#	DODIC	NOMENCLATURE	LOT #	QTY REQUESTED	QTY RECEIVED (NOTE 1)	QTY EXPENDED	QTY TURNED IN (NOTE 2)		
I certify the receipt/expenditure data liste above was consumed on the range/trainin was conducted and all expended ammuni hazardous items.	ng area as door	imented. That a range sweep/amnesty brie	I certify that I have received those quantities of unexpended Class V(W) ammunition listed above and have completed the turn-in documents per (note 2). Ammo Tech/EOD and/or Authorized Individual:						
(If applicable) (Number) unused prop Training Standards, under the supervision	(Print Name, Rank) Date								
RSO/EOD Signature		Date							

NOTE 1: All serial numbers for serialized ammunitions will be annotated on a separate sheet and attached to this expenditure report with a copy of the expenditure rasg.

NOTE 2: Unexpended Class V(W) will be turned in using the same document number as the initial issue document using a suffix (Example: M00001-8001-0001-A) Retention: Expenditure reports are filed by fiscal year (FY) and retained for current year plus two FY's.

(A&E Audit & Verification Officer Only): I certify I have audited this expenditure report against all issue and turn-in documents (DD1348s) and corrective action

(Circle one) is or is not required. A&E Audit & Verification Officer (Signature) _______ Date.



Excessive Breakouts



- ➤ Range Safety
 Officers must ensure
 that only the A&E
 that will be
 expended is
 unpackaged .
- Excessive A&E breakout is not authorized!
- ➤Only opening the items you intend to fire at that particular time.





FIELD STORAGE



- Installation commanders may authorize temporary field storage on approved ranges/training area up to 90 days.
 - ➤ MCB CLNC allows 14 days
- Temporary storage facilities/sites will be governed by the provisions on NAVSEA OP 5 Vol I.
- ➤ Use of OP 5 Vol III requires
 MARCORSYSCOM PM AMMO approval.







- ➤ Distance between stacks should not be less than 50 feet (field storage only)
- > Segregation
 - **≻**Compatibility
 - Live / Practice / Blank
- Quantity Distance from Bivouac sites
 - ➤ NAVSEA OP 5 Vol I Chapter 7



UXO



- ➤ The hazards of Unexploded Ordnance (UXO) on the battlefield have an enormous effect on command-and-control decisions for battle planning. During Operation Desert Storm, 21 Army personnel were killed and 53 injured as a direct result of handling (or mishandling) UXO. UXO is a hazard, whether it is on the battlefield or in designated training areas.
- ➤ Do not transmit on any radio frequencies near a suspected UXO hazard. Signals
- > transmitted from items such as walkie-talkies, shortwave radios, citizens' band (CB)
- radios, or other communications and navigation devices may detonate the UXO



UXO Cont.



 Whenever possible, mark the general location of the UXO hazard with engineer tape, colored cloth, or colored ribbon. Attach the marker to a stick or some other object so that it is about 3 feet off the ground and visible from all approaches. Place the marker no closer than the point where you first recognized

Ctore organi from organization

the UXO hazard.







• If it looks dangerous, IT IS! Stay away from it, mark off the area and call emergency personnel to handle the item! 23



Hazard to Electromagnetic



Radiation to Ordnance Classifications

- - >HERO Safe No hazard exist
 - >HERO Susceptible Fully assembled undergoing normal handling & loading
 - >HERO Unsafe devices with exposed wires arranged in the most optimum receiving orientation
 - >HERO Unreliable undetermined status





- > 15'- closed / 25' open magazine
- ➤ HERO Warning Symbols and Labels alert the radio and portable emitter systems operators of the potential HERO hazards.
- Low-power transceiver devices such as cell phones, active







Fire Prevention



Apply No Water! If water is added, it could intensify the flames.

➤ This indicates the presence of toxic smokes

- ➤ NAVSEA SWO20-AC-SAF-010
 - Storage Compatibility: Table 2-7









• A&E is further categorized in to 13 compatibility groups.

• A, B, C, D, E, F, G, H, J, K, L, N, S

• Compatibility is based on the type/degree of risk the A&E items present in storage and transportation.



• Compatibility groups determine what A&E can be stored or transported together without increasing the probability of accident or magnitude of an accident.







- ➤ All requests are submitted through your chain of command to your local ESO; MARCORSYSCOM/NOSSA/DDESB
- Site Approvals
 - New construction /temp storage/training facility/etc...
- Event Waivers
 - Case by case for a particular evolution
 - > One time limited duration
- Waivers
 - Temp deviation pending corrective action
 - > 2yrs
- > Exemptions
 - Long term deviation
 - > 5yrs







- > WESS
- **ESAMS**
- > ESCS
- > Explosive Mishap report
 - > OP NAVINST 5102.1D
 - Contact your local ESO for guidance



MLSR



- MCO 5530.14A (Appendix M)
- Maintain paperwork for current FY plus previous two FY's
- Time lines initial telephonic(Injury/Fatality)/48 hours
 - Small arms 20mm or smaller (over 1000 rds)
 - One or more rockets
 - One or more mines
 - ... device containing explosive material

MALFUNCTION DEFECTION

- "All" malfunctions get reported/info required
- Time lines initial telephonic/24 hrs/96 hrs/15 days
- Phone numbers:
 - ESO- 910 451- 6281 / 910-554-9175
 - II MEF 451-8898
 - II MARDIV 451-8378
 - CLNC ASP 451-2949 (Duty Tech) / 451- 4722
 - Camp Pend ASP (760) 725-3202
 - Camp Pen ESO (760) 763-4817
 - CMA (760) 830-4879 / (760) 830-3603
 - CMA ESO (760) 830-8464
 - MARCORSYSCOM (PMAM) 378-9495 or (703) 784-9175
 - HQMC Command Center 255-7366 or comm: (703) 695-7366



- MARCORSYSCOM/PM AMMO will:
 - Review all malfunction and defect reports;
 - Prepare technical response with recommendation
 - ** <u>5 days for non-critical and 24 hours</u> for critical. **
 - Conduct formal investigations involving casualties, equipment



MALF / DEFECT



- PURPOSE: (Assessment Program)
 - -Ensure the safety and reliability of MC ground ammo.
 - -Provides a near 'real time' analysis of ammo performance...
 - -Only effective **IF**



Explosive Mishaps



➤ We loose too many Marines/Sailors to lack of compliance to proper procedures, experience, or complacency.

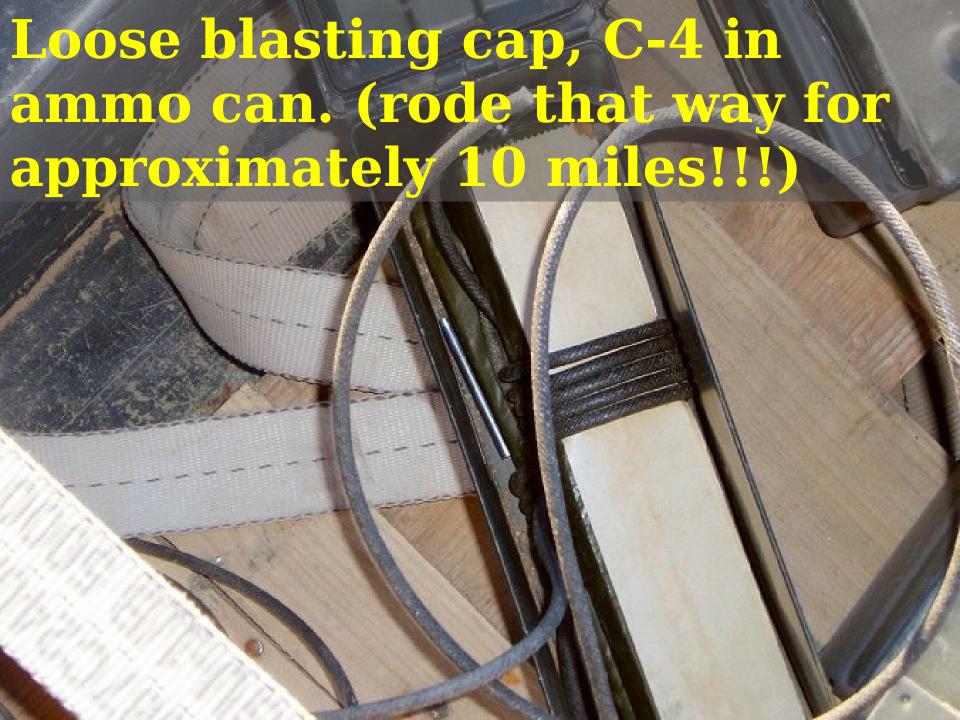
>TRAIN HOW WE FIGHT

- > Every Marine/Sailor is a safety officer
 - Let your voice be heard so lives be saved!











References



- >MCO 5530.14A Marine Corps Physical Security Program Manual
 - >MLSR reporting / A&E Screening Forms
- ➤MCO P4400.150E Consumer Level Policy Manual Chapter 7
- ➤ MCO P8020.10B Management & Explosives Safety Chapter 4
- ►MCO P8023.3A Personnel Qualification & Certification Program for Class V Ammunition & Explosives
- >MCO 8025.1D Malfunction Reporting
- >NAVMC 8015.1 PICP for class V(W)

